

What is claimed is:

- 1 1. A spectrally broadband light source of high
2 optical power for fiber optic applications, characterized by
3 (a) a monolithic linear array, arranged on a substrate,
4 in particular a wafer or chip, of adjacent surface-emitting LEDs;
5 and
6 (b) a microoptics array arranged upstream of the
7 monolithic LED linear array on the emission side at a prescribed
8 spacing, having optical functions individually assigned to the
9 LED elements in such a way that, for the purpose of optimizing
10 the optical power that can be launched into an optical fiber, the
11 emission of the individual LEDs is focused onto an optical unit
12 arranged upstream of the launch point of the fiber.
- 1 2. A spectrally broadband light source as claimed in
2 Claim 1, characterized in that the optical unit is designed as a
3 collecting optics, in particular as a spherical lens, arranged at
4 an end of the fiber into which light is radiated.